

REWORKABLE THERMAL INTERFACE MATERIAL

ABSTRACT OF THE DISCLOSURE

5 A process of making a reworkable thermal interface material is described.
The reworkable thermal interface material is bonded to a die and a heat sink. The
reworkable thermal interface material includes a phase-change polymer matrix
material. Other materials in the reworkable thermal interface material can include
heat transfer particles and low melting-point metal particles. The phase-change
10 polymer matrix material includes a melting temperature below a selected
temperature and the heat transfer particles have a melting temperature substantially
above the selected temperature. The heat transfer particles act as a spacer limit,
which holds the thermal interface material to a given bond-line thickness during use.